SHARP

MX-2301N

Digital Full Colour Multifunctional System

Make the Move to Colour,
the Jump to Added Performance

COPY | NETWORK PRINT | NETWORK SCAN | SHARPDESK | FAX OPTION

SHARP

Quality Performance from a Full-Colour Solution

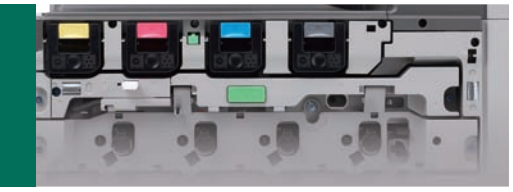
As a solid back-to-the-basics solution, the MX-2301N employs cutting-edge Sharp technology to deliver the copy, print, and network scan functions plus fax option essential for running a business. As a full-colour multifunctional system, the MX-2301N puts high-quality colour to work lending impact and advantage to business communications.

Boasting efficiency in everything from its compact frame to its speedy, 23-page-per- minute output in both colour and B/W, the MX-2301N offers an integrated document management system for workflow-enhancing functions and the Sharp OSA (Open Systems Architecture) development platform for third-party creation of customised applications. For peace of mind, multi-layered security solutions protect against data leakage and unauthorised access.

Isn't it time to take your business-essential functions to the next level? Isn't it time for the full-colour MX-2301N?

The Design Advantage

With its dark-coloured control panel, the MX-2301N brings a polished design to the workplace. This user-friendly panel features an 8.1-inch touch-screen LCD that makes the MX-2301N particularly easy to navigate. For added flair, the MX-2301N sports a unique textured surface that enhances office décor.



COPYING & NETWORK PRIN

PRODUCTIVE

Super-Efficient Colour and B/W Output

COPY PRINT

The tandem printing engine with four in-line drums helps the MX-2301N deliver a fast output of **23 cpm/ppm*** in full colour and in B/W. The first copy comes out in just **8.9 seconds** in full colour and **6.0 seconds** in B/W. What's more, its short, straight paper path minimises misfeeds to save you paper and toner costs.

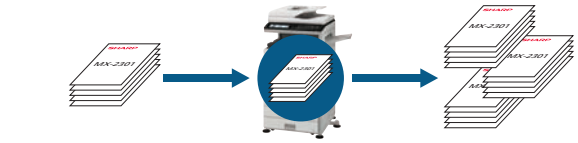
* A4, long-edge feeding

23 CPM PPM 23 CPM PPM

Productive Collated Output from Memory

COPY PRINT

The MX-2301N's Scan Once/Print Many function only requires a single scan of a multi-page original for copying, and the RIP Once/Print Many function only needs to download print data once from the PC for printing. The machine then automatically saves the data into memory and outputs **collated** sets of copies or printouts in the proper page order (electronic sorting), with each set **offset stacked** for easier retrieval.



Multi-page original is scanned... (or print data sent from PC) | stored on hard disk in proper page order... | ...and stacked offset

Built-in Stackless Duplex Module

COPY PRINT

The MX-2301N can make **two-sided copies and printouts** using its built-in stackless duplex module, effectively reducing paper costs as well as saving filing space. Duplex copying is even more effective when used together with the standard-equipped **100-sheet RSPF** (reversing single pass feeder), which efficiently feeds in either one- or two-sided originals.

Job Build for Large-Volume Scanning

COPY

The MX-2301N easily handles large-volume copy jobs exceeding the RSPF's 100-sheet*1 capacity. For example, a 270-sheet original can be scanned as batches of 100 + 100 + 70 sheets and automatically stored on the MX-2301N's hard disk*2. Users can then print the entire document in a single run.

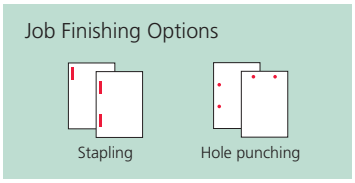
*1: A4, 80 g/m^2

*2: The number of pages that can be stored for the Job Build function depends on the machine's HDD capacity and other conditions.

Automated Finishing

COPY PRINT

The MX-2301N makes it easy to create professional-looking booklets. The **chapter divide** function lets you print out all chapters starting on either odd- or even-numbered pages to give documents a consistent, polished look. A space-efficient **Finisher** is available for jobs that require sorting and stapling. Plus, an optional **Punch Module** allows you to punch holes in documents for easy filing.



Large Paper Capacity

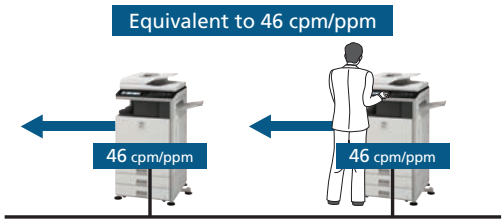
COPY PRINT

For high-volume work, the MX-2301N can accommodate an optional stand with 2 x 500-sheet paper drawers for a total capacity of **2,100 sheets**. The **Auto Tray Switching** function automatically switches to another paper tray filled with the same size paper, allowing you to do extra-large volume jobs.

Network Tandem Function

COPY PRINT

When two MX-2301Ns are connected to the same office network, you can use both simultaneously to double copying/printing output to up to **46 cpm/ppm**. Large-volume jobs can be completed with ease, enabling you to meet tight deadlines.

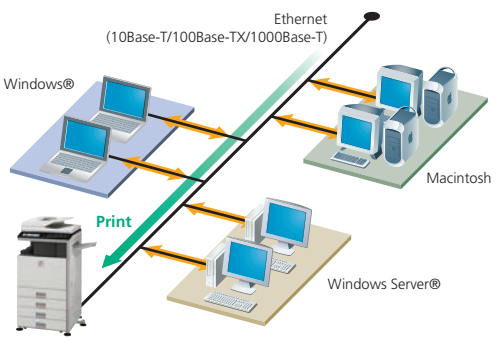


NETWORK-READY

Supports Most Office Environments

PRINT

- The MX-2301N works as a network printer with the latest and most commonly used operating systems and network protocols, including **IPv6**, and even in mixed OS environments. With a 64-bit, 1 GHz CPU, you get fast, powerful network printing via the 1000Base-T **Gigabit Ethernet** standard.
- The MX-2301N supports the **PCL6** printer language. For compatibility with **PostScript 3**, the MX-PKX1 PS3 Expansion Kit is available.



TING

SUPERB PRINT QUALITY

Improved Imaging System

COPY PRINT

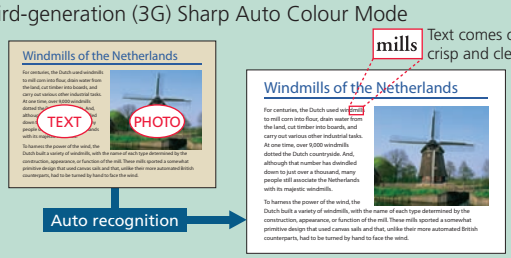
Sharp thoroughly revamped its imaging process for the MX-2301N; now a high-performance processor, a new developer, and the newly developed high grade toner combine to provide breathtaking image quality. The smaller particle size of the toner and the developer allows for reduced graininess and clear reproduction of fine lines and halftone colours.

Easy, High-Quality Copying

COPY

The MX-2301N features **third-generation Sharp Auto Colour Mode**, anyone—with just a push of the start button—can easily and automatically make copies that are faithful to the original. Here is how it works. **Auto Colour Selection** automatically determines whether a page is colour or B/W and selects the appropriate copy mode for that page. **Auto Colour Mode** analyses the contents of each page, distinguishing between different components, such as photos and text. This is what allows the MX-2301N to print out maps with crisp, clear text and to automatically remove the background colour on newspaper and magazine copies for clearer output. When copying in B/W, multi-level error diffusion technology provides dramatically smoother gradation in photos and subtle greyscale images.

Third-generation (3G) Sharp Auto Colour Mode



VERSATILE

USB Memory Direct Print

PRINT

One of the two USB ports on the MX-2301N is located at the front of the MFD beneath the control panel. It comes in handy when printing data directly from USB memory devices—an indispensable function for users who are in a hurry or who want quick machine access without a PC.

Versatile Paper Handling

COPY PRINT

The MX-2301N accommodates a wide range of paper sizes, from **A5R** to **A3 wide**. When using an optional finisher or exit tray, you can do A3 **full-bleed printing** onto **A3-wide** paper, without loss of image area. Thanks to its tandem printing method, the MX-2301N can handle heavy paper stock up to **256 g/m²**, overhead transparencies, and other types of paper, further expanding the range of printing applications.

Image Editing Functions

COPY

The MX-2301N includes colourful editing functions made possible by digital technology.

- **Multi-Page Enlargement** divides an image onto separate sheets for making posters up to A0 x 2 in size.
- **Image Repeat** places multiple copies of an image onto a single sheet.
- **Mirror Image** makes a reverse image of the original.
- **XY Zoom** adjusts the horizontal and vertical ratios independently.
- **B/W Reverse** reverses the black and white of an image.

Please see specifications for a list of available convenient functions.

Various Copy/Print Applications

COPY PRINT

Copy & Print

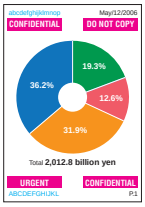
- **Tab Copy/Print** can copy or print directly onto tabs on document separators and insert them into assigned positions.
- **Multi-Shot** copying and **N-up** printing
- **Pamphlet Style** copying/printing
- **Cover/transparency** insertion

Print

- **PDF/TIFF/JPEG Direct Print** prints PDF, TIFF, or JPEG files without using the printer driver or opening applications.
  Note: Direct PDF printing requires optional MX-PKX1. Direct printing may not support all PDF, TIFF, and JPEG formats.
- **Carbon Copy Print** mode automatically outputs multiple printouts of the same data on plain and/or coloured paper; convenient for invoices and purchase orders.
- **Form Overlay** can store office document formatting such as letterheads and overlay contents in colour, eliminating the need for pre-printed paper.
- **Barcode font** compatibility (with optional AR-PF1 Barcode Font Kit)

Copy

- **Book Copy** is convenient for compiling copies of a book or bound originals into pamphlet format.
- **Card Shot** enables one-touch copying of both sides of a card (credit cards, ID cards, etc.) onto a single page.
- **Colour Stamp** labels your copies with page numbers, the date or text such as "Urgent" in up to four different colours.
- **Mixed Size Original Copy** mode automatically distinguishes documents of mixed sizes* (such as A3/B4, B4/A4, etc.) fed through the RSPF and chooses the appropriate paper.



* Some restrictions apply when combining paper sizes of different format series.

IMAGE SENDING

A3 Colour Network Scanning

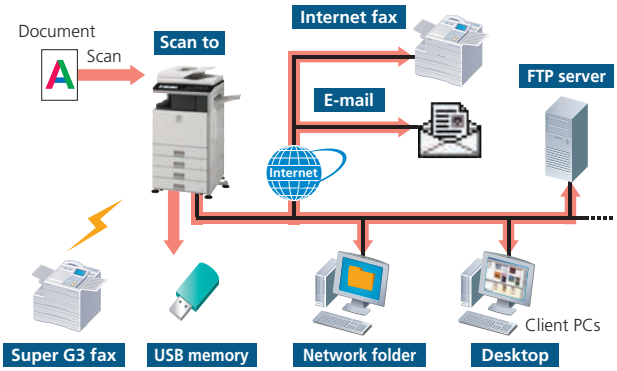
SCAN

The MX-2301N works as a **full-colour network scanner** that can be used with any Windows PC on the network. Converting any type of paper-based document, up to A3 in size, into an editable digital file is as easy as making a copy. The MX-2301N supports TIFF, PDF, encrypted PDF, and JPEG file formats. Plus, **Auto Colour Selection** chooses the right mode for scanning originals containing both colour and B/W pages (see page 4).

Multiple Distribution of Scanned Files

SCAN FAX

With the touch of a few buttons, you can choose different ways to distribute your scanned documents. **Scan to E-mail** sends documents as an e-mail attachment. **Scan to FTP Server** scans documents directly to an FTP server for storage. **Scan to Desktop** sends scanned documents directly to your PC desktop. **Scan to Network Folder (SMB)** sends files to a shared folder on a networked Windows PC. **Scan to USB Memory** scans documents directly to USB memory devices. **Scan to Fax** enables conventional faxing or Internet faxing.



LDAP Support

SCAN FAX

Built-in LDAP (lightweight directory access protocol) support eliminates the need to enter or register full addresses. By entering the first few letters of the recipient's name, the MX-2301N displays a list of possible matches from your company's LDAP server. Selected addresses can be stored to the MX-2301N's address book.

High-Speed Faxing

FAX

The optional MX-FXX2 Fax Expansion Kit turns the MX-2301N into a 33.6 Kbps **Super G3 fax**. Using JBIG compression technology, the MX-2301N can send an A4 size page in under 3 seconds*. Use the 100-sheet RSPF to further boost faxing efficiency. Additionally, **Quick On-Line Transmission** can start dialling and transmitting as soon as the first page is scanned into memory, you can send documents in even **less time**.

* Based on Sharp's standard chart with approximately 700 characters (A4 long-edge feeding) at standard resolution.

Automated Fax Finishing

FAX

The MX-2301N eliminates the need to copy and staple received faxes by hand. Simply use the Fax Output setting on the LCD control panel to designate the number of copies. With finishing options installed, the MX-2301N will even automatically staple these documents for you.

Output settings for received faxes

PC-Fax/PC-Internet Fax

FAX

Directly send a document created on your PC to a recipient's fax machine via a phone line or the Internet without printing to paper. Save time and paper costs while retaining original document quality.

Note: PC-Internet Fax requires optional MX-FWX1; PC-Fax requires MX-FXX2.

Internet Fax

FAX

Economically send and receive faxes to and from other ITU-T T-37-compliant Internet fax machines via the Internet. The MX-2301N supports **Direct SMTP**; outgoing Internet faxes do not go through your mail server, making transmission faster and cheaper.

Note: Requires optional MX-FWX1.

Paperless Faxing with Inbound Routing

FAX

Paperless faxing with inbound routing lets you check incoming faxes via e-mail before printing. It can also forward incoming faxes to an FTP server, a network folder (SMB), or a PC desktop. Files can be saved in either PDF or TIFF (single/multi).

Other Key Features

Scan & Fax

- **One-touch auto dial keys** register up to **999** numbers for frequently used destinations
- **Broadcast transmission** to up to 500 destinations
- **Programme keys** (up to 48 keys) are available to set up frequently used transmissions for instant recall
- **Easy text entry*** lets you enter addresses, file names, subject titles or messages from the LCD control panel
  * Only addresses can be entered for faxing.
- **Mixed size original scanning** automatically distinguishes documents of mixed sizes fed through the RSPF

Fax

- **Duplex transmission/reception** sends and prints out two-sided documents
- **Flash memory backup** ensures documents remain safely backed up in memory, even in the event of a power failure
- **Rotation transmission/reception** rotates incoming and outgoing faxes to match the direction of the printing paper
- **Fax destination confirmation** allows users to reconfirm fax numbers before sending to prevent transmission errors

Note: Faxing is available in B/W only.

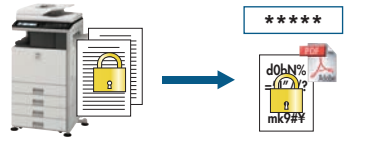
SECURITY

Powerful Multi-Layered Security

With multiple levels of network and data security to cover a wide range of security needs, Sharp's security solutions protect your business assets and bring peace of mind. The MX-2301N safeguards sensitive data with powerful security functions that eliminate the worry of unauthorised use and guarantee greater protection for your confidential information.

Encrypted PDF with Password Protection

To prevent unauthorised viewing of confidential image data, the MX-2301N enables users to password protect and encrypt PDF data. By setting a password when scanning, users can transmit a PDF over the network in encrypted format. Then, after transmission, viewers will only gain access to the encrypted PDF after successfully re-entering the chosen password.

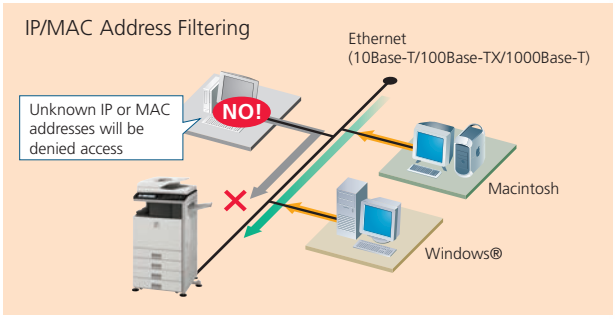


MX-2301N encrpyts the scanned data

Requests password entry for viewing the file

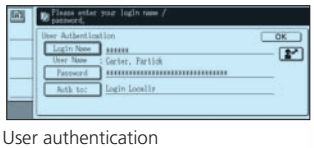
Secure Network Access

The MX-2301N's **IP/MAC address filtering** function provides highly secure operation by restricting access to the MX-2301N on your office network. Only PCs that have either their IP address or MAC (media access control) address registered are allowed to use the MX-2301N. Attempted access from an unknown IP or MAC address will be denied, preventing unauthorised use. The MX-2301N also supports the **IEEE 802.1X** standard for port-based network access control, which blocks all access from unauthorised devices.



User Authentication

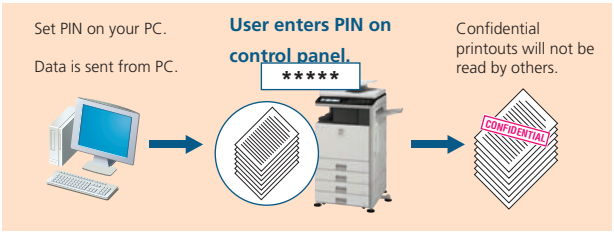
The MX-2301N prevents unauthorised use by requiring **passwords** for machine access. The MX-2301N can register up to 1,000 users in **three access levels** as Administrator, User, and Guest and it can also designate to which function user authentication applies. For example, the MX-2301N can be set to allow B/W copying by all users while restricting colour copying to designated users.



User authentication

Print Hold and Confidential Print

To keep others from seeing confidential documents as they are being printed out, the MX-2301N's **Print Hold** function stores print data on its hard disk and withholds output until the user executes a print command from the control panel. For added security, the **Confidential Print** function requires the user to enter in a PIN (personal identification number) at the machine before printing can begin.

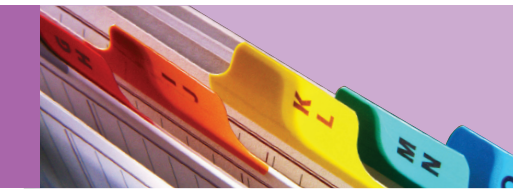

Set PIN on your PC.
Data is sent from PC.
User enters PIN on control panel.
*****
Confidential printouts will not be read by others.
CONFIDENTIAL

Secure Sockets Layer

SSL (secure sockets layer) enables the encryption of data communications to prevent data leakage through the network when printing via IPP, browsing secure Web pages (HTTPS), or communicating via e-mail (SMTP and POP3) or FTP (FTPS).

IPv6 and IPsec Support

The MX-2301N supports the IPv6 Internet protocol. An obligatory part of IPv6 is IPsec (IP Security), a set of protocols for securing Internet protocol (IP) communications. IPsec encrypts and authenticates traffic between specified parties, giving IPsec-compatible products an extremely high level of network security.



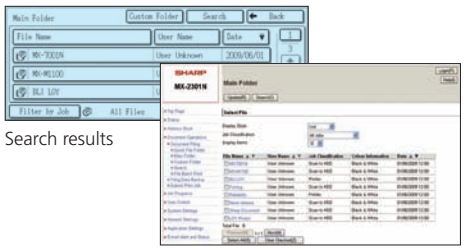
DOCUMENT MANAGEMENT

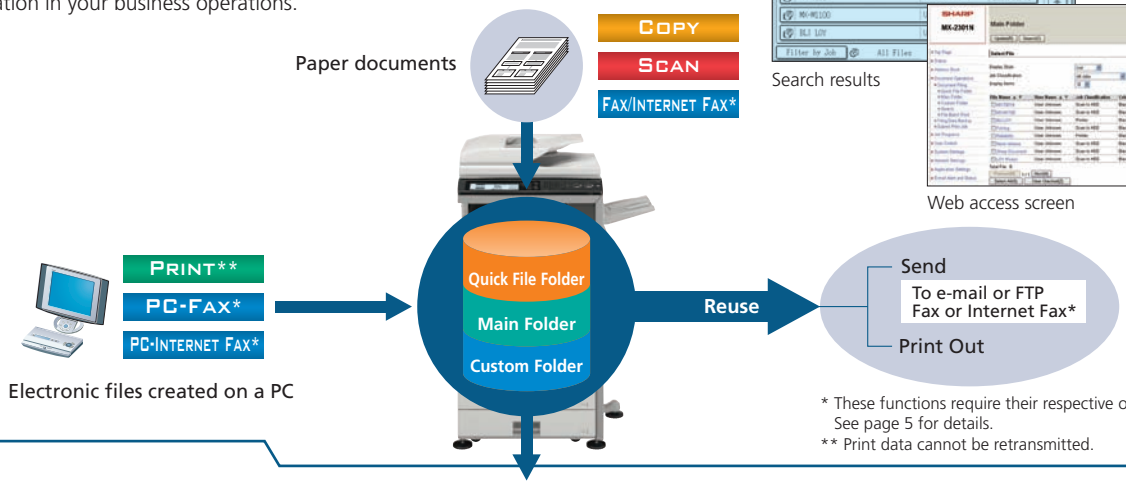
Document Management on the Hard Disk

You can save processed job data in designated folders on the MX-2301N's built-in hard disk, making it easy to instantly recall saved documents or jobs for printing and sending at a later time. This contributes greatly to efficient sharing and distribution of information in your business operations.

Easy Access to Stored Files

Documents that are stored on the hard disk can be quickly searched and accessed from the control panel display or through a Web browser.

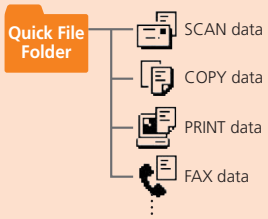




* These functions require their respective option(s). See page 5 for details.
** Print data cannot be retransmitted.

Quick Filing

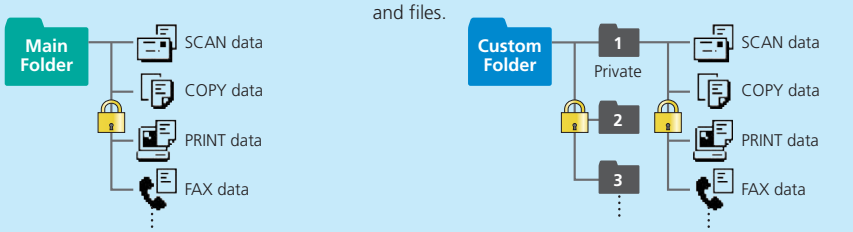
Up to **1,700 pages** or 1,000 files*1 that have been copied, printed, scanned, or faxed*2 can be stored by job on the hard disk in a Quick File Folder. You can easily reuse saved data without having to reload or rescan the original.



Advanced Filing Function

Up to **5,500 pages** or 3,000 files*1 that have been copied, printed, scanned, or faxed*2 can be stored by job on the hard disk in up to 1,000 folders with customised names and locations. Enhanced security features require users to enter a 5- to 8-digit password to access secure folders, protecting your sensitive data. Storage options include:

- Main Folder – You can store processed files by user name in the main public folder and share them across the workgroup. Any file name and a PIN code can be assigned to each saved job.
- Custom Folder - Up to 500 private folders (named as desired) can be created within the Custom Folder. When saving a file in a private folder, any file name can be assigned. A PIN code can be applied to both private folders and files.

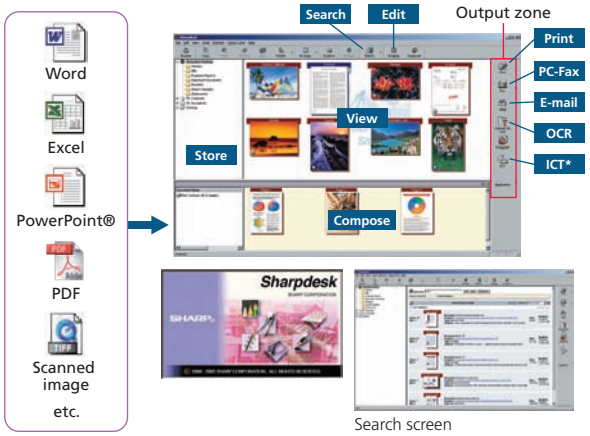


*1: Measured using Sharp's standard chart (A4 with 6% coverage, B/W). The Quick File Folder shares the HDD with the Job Build function; up to 12GB of data storage is available when using both functions. The storage capacity will be less for colour pages.
*2: For fax and Internet fax jobs, only transmitted data (not received faxes) can be saved in the Document Filing function.

Sharpdesk for Total Document Management

Sharpdesk is an original Sharp application that provides integrated desktop management of documents in over **200 file formats**, including scanned paper-based documents and those created with popular applications such as Word. It allows you to organise, edit, search, and distribute your documents, all with simple drag-and-drop operation.

- Intuitive desktop display features **thumbnail** viewing
- Sharpdesk Imaging provides **annotation** tools for paper-free proofreading
- Sharpdesk **Composer** combines different types of files into a single document
- **Optical character recognition** converts documents into editable text files
- **Output zone** distributes files to e-mail, printers, and other applications
- **File search** allows searching by file name, keyword, or thumbnail



* Image Compression Tool for converting images into high-compression PDF files

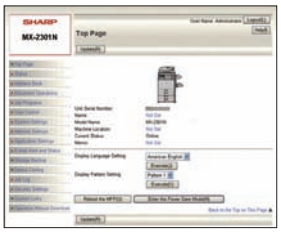
DEVICE MANAGEMENT

Integrated Device Management

The MX-2301N allows for easy programming of complex settings and makes it possible for a system administrator to manage multiple devices from a single location. The result is minimum time and effort and maximum work efficiency.

Web-Based System Settings

Administrators can configure system settings such as address book control, document filing management, and user control (accounting) from either over the network or from the control panel of the MX-2301N.



Web-based device management

User Control

The MX-2301N has capabilities to **restrict machine access and usage**. Easily manage overall running costs by setting access rules through a Web browser to limit or restrict functions, such as the printing out or copying of large-volume colour documents.

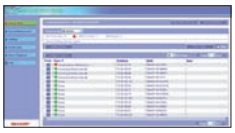
- Authority Groups – Use of each function can be restricted individually.
- User control and account – Up to 1,000 password-protected user accounts can be created for customised access. Accounts can be set up for individuals, groups or departments, in conjunction with the authority group setting. Maximum limits for printing or copying pages can be set for each account.

Remote Diagnosis

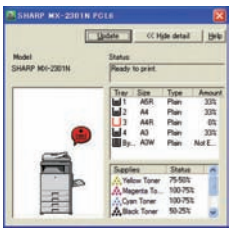
The MX-2301N can be monitored remotely through a Web browser. In the event of a problem, such as a low amount of toner, an alert is displayed on the Web page. Additionally, the E-Mail Status and Alert function generates e-mail messages to notify the administrator when action or maintenance is required.

Network Utility Software

- **Printer Administration Utility** makes printer networks easier to manage by allowing administrators to customise monitored items and view settings such as the IP address directly from their PC through a standard Web browser.
- If the MX-2301N is low on paper or toner, the **Printer Status Monitor** will alert you in the form of easy-to-understand graphics, allowing you to avoid problems before they arise.



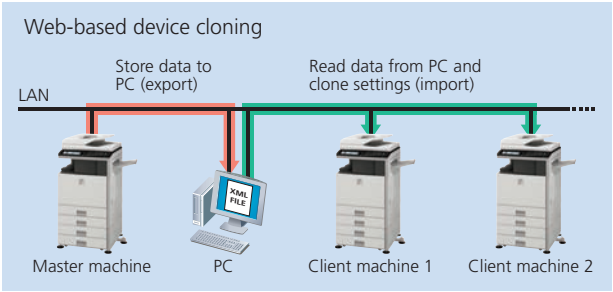
Web-based PAU 4.2



Printer Status Monitor

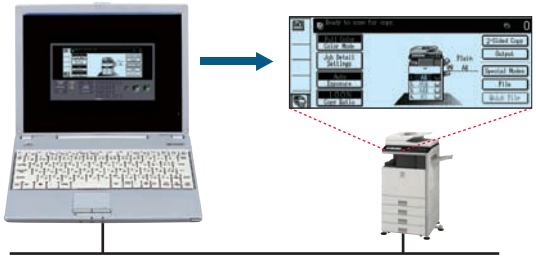
Device Cloning

Machine settings can be copied conveniently to another MX-2301N via a Web browser in XML format, making it easy to clone machines in a networked environment. With Device Cloning, the administrator no longer needs to set up individual machines one by one, thereby making his/her job a lot easier.



Remote Operation

With the MX-2301N's new Remote Operation function, the same control panel screen found on the MFD can be displayed on the screen of a remote, office-networked PC, allowing the MFD to be operated via that PC. This function can, for example, enable the administrator to guide an MFD user in need of help through necessary procedures. It also allows users, regardless of experience, to operate the MFD remotely, via the PC.



ENVIRONMENT & USER-FRIENDLY

ENVIRONMENTALLY ADVANCED

Environment Friendly

The MX-2301N takes performance to a whole new level. The newly developed high grade toner offers a significantly **lower consumption rate** than conventional toner, while the **longer-life photoconductor** delivers higher performance than previous models.

Energy Friendly

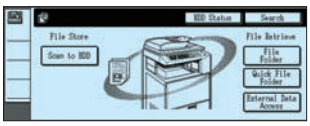
- With a standby power consumption of less than **1W** in night-time fax reception mode, the MX-2301N is one of the leaders in the industry in energy savings for colour MFDs.
- Conforming to the **Energy Star** programme, an international system identifying energy-efficient products, the MX-2301N has two levels of **energy-saving modes** to reduce or shut off electricity after a period of inactivity. To further cut back on running costs, by pressing the **manual energy save key** after a job is finished, the MX-2301N immediately enters pre-heat mode.

- The MX-2301N conforms to standards set for the Nordic Swan and Blue Angel European environmental labels.
- In **support of the RoHS directive**, which restricts the use of hazardous substances, Sharp has fully eliminated harmful lead and chromium in all MX-2301N parts and materials.

EASY OPERATION

8.1-Inch Touch-Screen LCD

The MX-2301N's logically designed control panel features a wide, clear, touch-screen LCD with easy-to-follow guidance. For example, when adjusting staple/sort finishing, the LCD displays step-by-step instructions to guide you through the necessary procedures.



Document filing

Staple/sort finishing

Book copy

Tab copy

Sharp OSA (Open Systems Architecture)

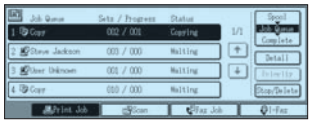
The MX-2301N supports the Sharp OSA* development platform. This innovative technology allows users to interact with critical business and network applications and/or external account software right from the LCD control panel, offering a new realm of control and convenience. Since Sharp OSA utilises industry-standard network protocols, such as XML and SOAP, the MX-2301N can easily integrate with document management systems, enterprise resource planning software, workflow applications, and more.

* Requires optional MX-AMX2 and/or MX-AMX3.

Note: The screen shown above is just a sample. Screen layouts and user interfaces can be specifically designed to accommodate customised application programs.

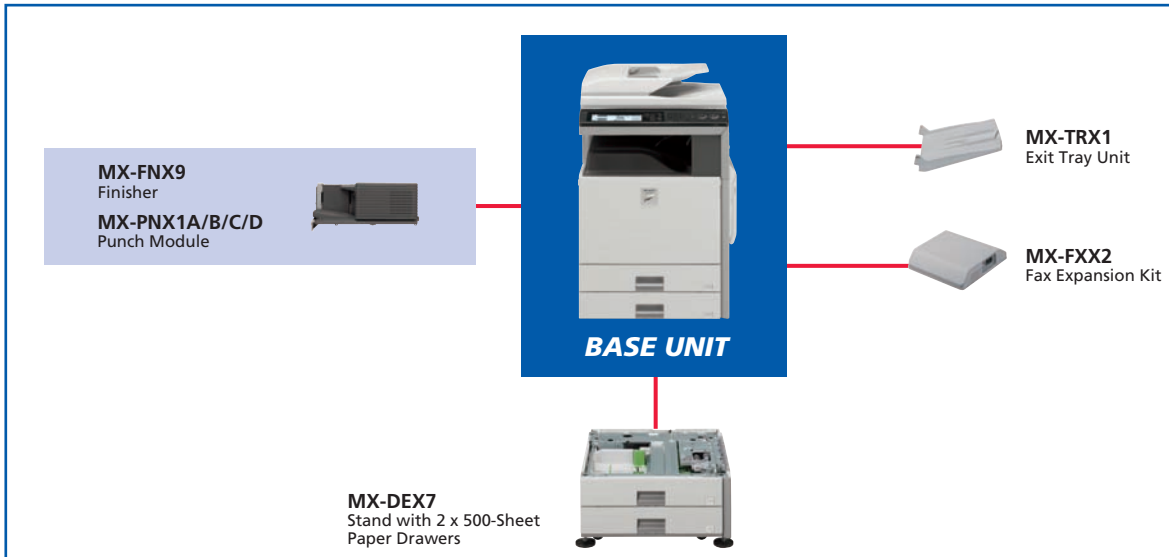
Job Status Screen

Whether printing or copying, the control panel displays a list of all jobs, showing you at a glance the jobs in progress and the position of your job in the queue. With a few quick touches of the LCD screen, the **Priority Printing** function lets you easily **change the job queue order** or delete jobs that are no longer needed.



OPTIONS

System Configuration



MX-PKX1
PS3 Expansion Kit

AR-PF1
Barcode Font Kit

MX-FWX1
Internet Fax Expansion Kit

MX-USX1/X5
Sharpdesk 1/5-License Kit

MX-US10/50/A0
Sharpdesk 10/50/100-License Kit

MX-AMX1
Application Integration Module

MX-AMX2
Application Communication Module

MX-AMX3
External Account Module

AR-SU1
Stamp Unit

Certain options may not be available in some areas.

Specifications for Options

MX-FNX9 Finisher

Paper size	Non offset	A3W to A5R
	Offset/staple	A3 to B5
Paper capacity (max.)		500 sheets (A4 or smaller), 250 sheets (B4 or larger)
Stapling capacity		50 sheets (A4 or smaller), 30 sheets (B4 or larger)
Staple position		3 locations (front, rear or both)

Punch Modules

Model name / For the MX-FNX9	MX-PNX1A	MX-PNX1B	MX-PNX1C	MX-PNX1D
Number of holes	2	3	4	4 (wide)
Paper weight	55 to 209 g/m² *1			

*1: Punchable weight is 55 to 128 g/m².

MX-DEX7 Stand with 2 x 500-Sheet Paper Drawers

Paper size (upper and lower tray)	A3 to B5R
Paper capacity (upper and lower tray)	500 sheets each (80 g/m²)

MX-FXX2 Fax Expansion Kit

Compression method	MH/MR/MMR/JBIG
Communication protocol	Super G3/G3
Modem speed	33,600 bps to 2,400 bps

Sharpdesk 3.2 System Requirements

CPU and memory	Depends on operating system used
Hard disk	300MB or more available space (including sample image files and help files)
Monitor	SVGA resolution or better and capable of displaying more than 256 colours (True Color recommended)
Supported OS	Windows® 98 Second Edition, Windows® Me, Windows® 2000 Professional, Windows® XP Professional, Windows® XP Home Edition, Windows Vista®*2
Network protocols	TCP/IP (using Network Scanner Tool)

*2: Windows Vista 64 bit is supported as 32-bit compatible mode. Sharpdesk Composer does not support Windows Vista 64 bit.

SPECIFICATIONS

General

Type	Desktop
Engine speed (colour & B/W)	Max. 23 cpm/ppm (A4, long-edge feeding)
Paper size	Max. A3 wide, min. A5R
Paper capacity (80 g/m²)	Standard: 1,100 sheets (two 500-sheet trays and 100-sheet multi-bypass tray) Maximum: 2,100 sheets
Paper weight	Tray: 60 g/m² to 209 g/m² Multi-bypass tray: 55 g/m² to 256 g/m²
Warm-up time*1	Less than 60 sec.
Memory	Copier memory: 1GB Printer memory: 512MB 80GB HDD*2
Power requirements	230 - 240V AC, 50/60 Hz
Power consumption (max.)	1.84 kW
Dimensions (W x D x H)	620 x 670 x 950 mm
Weight	Approx. 112 kg
Features	Card shot, edge/centre erase, job build, document filing, user authentication (1,000 accounts), pre-heat/auto power shut-off modes

Copier

Original paper size	Max. A3
First copy time*3	Full colour: 8.9 sec. B/W: 6.0 sec.
Continuous copy	Max. 999 copies
Resolution	Scan (colour): 600 x 600 dpi Scan (B/W): 600 x 600 dpi, 600 x 400 dpi, 600 x 300 dpi Print: 600 x 600 dpi
Gradation	Equivalent to 256 levels
Zoom range	25 to 400% (25 to 200% using RSPF) in 1% increments
Preset copy ratios	10 ratios (5R/5E)
Features*4	Auto paper selection (mixed/random size feeding), auto magnification selection, paper type selection, auto tray switching, rotation copy, electronic sorting, network tandem copy, book copy, margin shift, dual page copy, multi-shot (4-in-1, 2-in-1), cover/transparency/tab page insertion, pamphlet copy, 2-sided copy orientation change, XY zoom, B/W reverse, mirror image, duplex copy, reserved copy, job programme, image repeat, irregular original/paper size input, stamps (date, page number, text, stamp), multi-page enlargement, tab copy, centering, proof copy, 3G Sharp auto colour mode, auto colour selection, auto calibration

Network Scanner

Scan method	Push scan (via control panel), pull scan (TWAIN-compliant application)
Resolution	Push scan: 100, 200, 300, 400, 600 dpi Pull scan: 75, 100, 150, 200, 300, 400, 600 dpi 50 to 9,600 dpi via user setting
File formats	TIFF, PDF, encrypted PDF, JPEG (colour only)
Scanner utility	Sharpdesk
Scan destinations	Scan to e-mail, desktop, FTP server, network folder (SMB), USB memory
Features	Internet fax*5 (supports direct SMTP), PC-Internet fax transmission*5, 3G Sharp auto colour mode, mixed size original scanning, LDAP support, direct entry (address, subject, message), 999 one-touch dials, 500 group dials, 48 job programmes, broadcasting, long original scanning (max. 1,000 mm)*6, auto colour selection

Document Filing

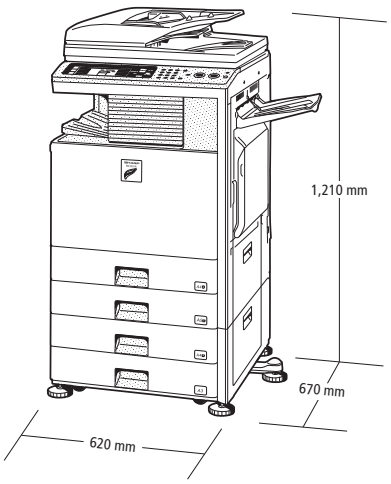
Document filing capacity	Main and custom folders: 38GB, 5,500 pages*7 or 3,000 files Quick file folder: 12GB, 1,700 pages*7 or 1,000 files
Stored jobs*4	Copy, print, scan, fax transmission
Storage folders	Quick file folder, main folder, custom folder (max. 1,000 folders)
Confidential storage	Password protection

Network Printer

Resolution	600 x 600 dpi
Interface	USB 2.0 10Base-T/100Base-TX/1000Base-T
Supported OS*8	Windows Server® 2003, Windows® XP, Windows Vista®, Windows® 7*9, Mac OS 9.0 to 9.2.2, Mac OS X 10.2.8, 10.3.9, 10.4 to 10.4.11, 10.5 to 10.5.6,10.6
Network protocols*8	TCP/IP (IPv4, IPv6), IPX/SPX (NetWare), NetBEUI, EtherTalk (AppleTalk)
Printing protocols	LPR, Raw TCP (port 9100), POP3 (e-mail printing), HTTP, Novell Printserver application with NDS and Bindery, FTP for downloading print files, EtherTalk printing, IPP
PDL (emulation)	Standard: PCL 6 emulation Option*8: PS3 emulation
Available fonts	80 fonts for PCL, 136 fonts for PS3 emulation
Features*4 *10	Network tandem print, RIP Once/Print Many, job retention (print hold, proof print, confidential print), direct PDF/TIFF/JPEG printing, carbon copy print, duplex print, font/form download, offset output, printer administration utility and status monitor, pamphlet style, IP/MAC address filtering, port/protocol management, binding edge, N-up (2/4/6/8/9/16), paper/output tray selection, cover insertion, transparency interleave, fit to page, watermarks, form overlay, auto configuration, barcode font compatibility, tab print, poster print, secure network communications (SSL and IPsec [LPD]), toner save mode

B/W Facsimile (optional MX-FXX2 required)

Compression method	MH/MR/MMR/JBIG
Communication protocol	Super G3/G3
Transmission time	Less than 3 seconds*11
Modem speed	33,600 bps to 2,400 bps with automatic fallback
Transmission resolution	From Standard (203.2 x 97.8 dpi) to Super Fine (406.4 x 391 dpi)
Recording width	A3 to A5
Memory	8MB flash memory
Grey scale levels	Equivalent to 256 levels
Features	Duplex transmission/reception, quick on-line transmission, error correction mode, 999 one-touch dials, 500 group dials, LDAP support, 48 job programmes, broadcasting number registration, F-Code compatibility (confidential, relay broadcast), polling, memory transmission/reception, auto reduction (transmission/reception), rotation transmission/reception, print actual size, 2-in-1 transmission, long original transmission (max. 1,000 mm), PC-Fax transmission, timer transmission, inbound routing to e-mail, activity report, anti-junk fax, dual page scan, mixed size original scanning



Shown with options.

* 1 : At rated voltage, 23ºC. May vary depending on operating conditions.
* 2 : HDD capacity depends on procurement and sourcing status.
* 3 : Long-edge feeding of A4 sheets from 1st paper tray, using document glass, without Auto Colour Selection and Auto Colour mode, polygon motor running. May take longer when taking a copy for the first time immediately after turning the machine on.
* 4 : Some features require option(s).
* 5 : Optional MX-FWX1 required.
* 6 : B/W documents only, scanned at under 400-dpi resolution. Max. 800 mm for Internet faxing or when scanning at 600 x 600-dpi resolution.
* 7 : Measured using Sharp's standard chart (A4 with 6% coverage, B/W). The Quick File Folder shares the HDD with the Job Build function; up to 12GB of data storage is available when using both functions. The storage capacity will be less for colour pages.
* 8 : Optional MX-PKX1 required for Mac OS, EtherTalk, and PS3.
* 9 : Print driver support will be available at a later date.
*10 : Some features are not available according to the printer driver used.
*11 : Based on Sharp's standard chart with approx. 700 characters (A4 long-edge feeding) at standard resolution in Super G3 mode, 33,600 bps, JBIG compression.

- Design and specifications are subject to change without prior notice.
- Colour variations to products may occur due to printing.
- Some features require Optional items. Please consult with an authorised Sharp Reseller for details.
- All information and technical details are correct as at machine release date.
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